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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,828	1	10/30/2003	Junji Okada	117632	7196
25944	7590	06/14/2005		EXAM	INER
OLIFF & B		E, PLC	LEPISTO, RYAN A		
ALEXANDR		22320		ART UNIT	PAPER NUMBER
	•			2883	· <u>-</u>

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/695,828	OKADA ET AL.				
Office Action Sur	nmary	Examiner	Art Unit				
		Ryan Lepisto	2883				
The MAILING DATE of the Period for Reply	is communication app	ears on the cover sheet with t	ne correspondence address				
A SHORTENED STATUTORY THE MAILING DATE OF THIS - Extensions of time may be available unde after SIX (6) MONTHS from the mailing de - If the period for reply specified above, the If NO period for reply is specified above, the Failure to reply within the set or extended Any reply received by the Office later than earned patent term adjustment. See 37 C	COMMUNICATION. the provisions of 37 CFR 1.13 te of this communication. ss than thirly (30) days, a reply ne maximum statutory period w period for reply will, by statute, three months after the mailing	6(a). In no event, however, may a reply l within the statutory minimum of thirty (30 ill apply and will expire SIX (6) MONTHS cause the application to become ABAND	pe timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status							
1) Responsive to communic	ation(s) filed on 30 Oc	ctober 2003.					
2a) ☐ This action is FINAL.	2b)⊠ This	action is non-final.					
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Disposition of Claims							
4) ☑ Claim(s) <u>1-22</u> is/are pend 4a) Of the above claim(s) 5) ☐ Claim(s) is/are allo 6) ☑ Claim(s) <u>1-22</u> is/are reject 7) ☐ Claim(s) is/are obj 8) ☐ Claim(s) are subje	is/are withdrawwed. ted. ected to.						
Application Papers							
· · · · · · · · · · · · · · · · · · ·	October 2003 is/are: nat any objection to the of (s) including the correction	a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) X Notice of References Cited (PTO-892		4) 🔲 Interview Sumn					
2) Notice of Draftsperson's Patent Drawi 3) Information Disclosure Statement(s) (Paper No(s)/Mail Date 103, 6/04.		Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date nal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirota et al (JP 10-123350 A) (Hirota) and the US translation of the Hirota reference. Hirota teaches a signal processing device (Fig. 6, paragraphs 0029-0035) comprising light signal transmitting devices (laser diodes, 42a, which transmit signals according to an electric signal) for inputting a signal from one end of an optical path on circuit board (40) on a incident side of a light guide body (21) and outputting the signal towards a plurality of output nodes (42, photodiodes, 42b, which convert light signals to electric signals for an electric circuit (part of 40) to process the signal) wherein a polymethyl methacrylate (PMMA) (paragraph 0030), rectangular, light transmitting connecting material (part of 21), which has a refractive index of 1.485 according to the applicant's disclosure (page 10) and that surrounds the entire transmission layer (21) and a part (and any gaps present) of the optical paths of the circuit boards (40) (Fig. 6), that optical connects the optical paths includes particles (21a) for scattering the signal light in an optical medium (part of 21) and secures the laser diodes and photodiodes and therefore has adhering means. Further it is implied that the average particle diameter of the particles (21a) is

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greater than the wavelength of the signal light since the particles scatter the signal (smaller diameter particles would not scatter the signal as taught), that the preferred embodiments all have polymer components and the cladding (22) of the transmission layer (21) can be chosen to be a aluminum oxide, which would reflect signals (paragraph 0033).

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Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Kyozuka et al (JP 2000-241655) and its corresponding US translation anticipate claims 1, 3-5, 7-12, 14-16 and 18-22.
 - The following references are pertinent to the state of the prior art at the time of applicant's invention: "Mode Mixing and Polarization Scrambling Microparticles in Polymeric Resin Filled Optical Couplers", Grimes, G., IEEE Transactions on Components, Hybrids, and Manufacturing Technology, Volume 16, No. 3, May 1993, Ulrich (US 4,087,159), Yokogawa et al (US 5,099,357), Blyler, Jr. et al (US 5,166,933), Doiron et al (US 5,196,005), Matsuura et al (US 5,586,209), Saitoh (US 5,742,717), Li et al (US 5,745,619), Yoshimura et al (US 6,081,632), Bernard et al (US 6,360,039 B1), Parker et al (US 2003/0002733 A1), Steenbergen et al (US 2003/0012510 A1), Garito et al (US 2003/0224214 A1), Parker et al (US 2003/0228096 A1), Parker et al (US 2004/0067035 A1), Baney

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et al (US 2004/0071405 A1), Parker et al (US 6,735,368 B2), Parker et al (US 6,788,863 B2), Okada et al (US 6,792,213 B1), Yamada et al (US 6,878,925 B2).

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-F 7:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Lepisto

Frank Font

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Supervisory Patent Examiner

Frank & Fort

Date: 5/31/05

Technology Center 2800